

PROFESSOR PAUL MACHARIA KIMANI
CURRICULUM VITAE
(Updated: 27th June 2019)

TABLE OF CONTENTS

1. Personal biodata.....	2
2. Educational qualifications.....	2
3. University and work experience.....	2
4. Supervision of graduate students.....	3
5. Research publications.....	7
5.1 Refereed journal articles.....	7
5.2 Refereed proceedings.....	11
5.3 Refereed abstracts.....	18
5.4 Books, Monographs and Book Chapters.....	18
5.5 Occasional refereed publications.....	19
5.6 Scientific Research Reports.....	27
6. Papers presented in conferences, seminars, workshops and other gatherings.....	28
7. Abstracts in refereed publications and posters.....	45
8. Conferences, congresses, symposia, seminars and professional meetings attended.....	46
9. Invited lectures.....	52
10. Examinership (external).....	53
11. Invited reviews, editorship of journals and other publications.....	53
12. Completed research projects.....	53
13. Consultancies.....	54
14. Participation in organization of scientific meetings.....	54
15. Administrative experience.....	54
16. Membership of learned professional bodies.....	54
17. Courses and training attended.....	55
18. Scholarships, fellowships and awards.....	55
19. Innovations developed.....	56
20. Referees.....	57

1. PERSONAL BIODATA

1.1 Name Paul Macharia Kimani

1.2 Sex Male

1.3 Date of birth 01 January 1956

1.4 Marital Status Married

1.5 Nationality Kenyan

1.6 Employer University of Nairobi

1.7 Postal Address

Department of Plant Science and Crop Protection
College of Agriculture and Veterinary Sciences
University of Nairobi, P.O. Box 29053-0625
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1.7 Physical address

Dept of Plant Science and Crop Protection
Faculty of Agriculture
College of Agriculture and Veterinary Sciences (CAVS)
Upper Kabete Campus,
University of Nairobi

2. EDUCATION/QUALIFICATIONS

a. Profession: Breeder/Agronomist and Geneticist

b. Educational

1981-1983: PhD in **Genetics and Plant Breeding**, University of Wisconsin- Madison, U.S.A

1980-1981: MSc **Agronomy**, University of Wisconsin-Madison, U.S.A

1976-1979: BSc. **Agriculture**, First Class Honours, University of Nairobi

1974-1974: Alliance High School, Kikuyu (**A levels- EAACE**)

1970-1973: Nyeri High School, Nyeri County (O levels- EACE)

1963-1969: Muirungi Primary School, Othaya, Nyeri County (KCPE)

3. UNIVERSITY TEACHING AND WORK EXPERIENCE

2010 to date: Full professor

1997 -2010: Associate professor

2000-2010: Regional Breeder, East and Central Africa

1989-1990: Visiting scientist, Ben Gurion University, Beersheva, Israel

1988-1996: Senior lecturer

1983-1988: Lecturer, Dept. of Crop Science, University of Nairobi.

1980-1983: Graduate Assistant, Maize Breeding, University of Wisconsin-Madison

1979: Farm economics research officer, KARI-Naivasha, Kenya.

4. SUPERVISION OF POSTGRADUATE STUDENTS

Muthamia, J. G. Nkinki. 2015. Nitrogen fixation and productivity of common bean in phosphorus, nitrogen and moisture stressed soils in the Central highlands of Kenya. PhD Thesis, University of Nairobi.

Mbogori-Kairichi, Mercy. 2015. Broadening the genetic base of disease resistance in large seeded climbing bean using marker assisted selection Kenya. PhD Thesis, University of Nairobi.

Njau, S. N. 2016. Selection for yield potential, disease resistance and canning quality of runner and snap bean in Kenya. MSc Thesis, Plant Breeding and Biotechnology, University of Nairobi

Mulanya, M. Mercy. 2016. Genetic control of photoperiod sensitivity and selection for short day adaptation and disease resistance in runner and snap bean. M.Sc Thesis, University of Nairobi.

Cheptoo, J. J. 2014. Inheritance and selection for climbing growth habit, pod traits and multiple disease resistance in snap beans for smallholder farmers in Kenya. M.Sc. Thesis, University of Nairobi

Wanjau, B. Ng'ayu. 2014. Improving resistance to angular leaf spot (*Phaeoisariopsis griseola Sacc. Ferraris*) in common bean (*Phaseolus vulgaris L.*). PhD Thesis, University of Kwa-Zulu, Natal, South Africa. [Co-supervised with Prof Rob Melis and Prof S.M. Githiri]

Warsame, Ahmed Omar. 2014. Drought tolerance, agronomic potential, canning and nutritional quality of new dry bean lines. M.Sc Thesis, University of Nairobi.

Orende, J. Ombaka. 2014. Screening for drought resistance in Andean and Mesoamerican genotypes of common bean. M.Sc Thesis, University of Nairobi.

Musyimi, A. Saumu. 2014. Marker assisted gamete selection for multiple disease resistance in large seeded bean genotypes. M.Sc Thesis, University of Nairobi.

Njuguna, S. Mwangi. 2014. Gamete selection for multiple disease resistance in Mesoamerican bean genotypes and race typing of angular leaf spot pathogen in Kenya. M.Sc Thesis, University of Nairobi.

Githendu, B. W. 2013. Water absorption patterns, cooking time and canning quality of new drought tolerant bean lines. B.Sc Agriculture, Fourth Year Project, University of Nairobi.

Njau, S. N. 2013. Evaluation of advanced snap bean lines for pod yield, pod quality, shelf life and organoleptic characteristics. B.Sc.Agriculture, Fourth Year Project, University of Nairobi.

Wahome, S. W. 2011. Selection for multiple disease resistance and marketable pod characteristics in common bean. M.Sc Thesis, University of Nairobi.

Waweru, Felix. 2010. Phenotypic evaluation of common bean under drought stress in Kenya. M.Sc Thesis, University of Nairobi, Kenya.

Berhanu Amsalu Fenta. 2010. Role of protease inhibitor system on nodule senescence under water deficit in legumes. PhD Thesis, University of Pretoria, South Africa.

- Anna Felix. 2009. Influence of supplementary irrigation and organic manure application on micronutrient density in common bean. M.Sc Thesis, University of Nairobi.
- Elisabeth Adobi Okwuosa. 2009. Root and shoot characteristics associated with tolerance to low soil P and moisture stress in common bean. M.Sc Thesis, University of Nairobi.
- Wachira, G. 2009. Screening common bean cultivars for resistance to bean fly. M.Sc Thesis, University of Nairobi.
- Kamau, Gibson Gicharu. 2007. A comparative study of nitrogen fixation in selected cultivars of bush and climbing beans inoculated with different rhizobia strains. M.Sc Thesis, Kenyatta University, Nairobi, Kenya.
- Okonda, B. 2007. Effect of liming, nitrogen, phosphorus, potassium, iron and zinc fertilization on seed iron and zinc concentration and grain yield of common bean genotypes grown in some Kenyan soils. M.Sc Thesis, University of Nairobi.
- Muimui, K.K. 2007. Inheritance and selection for resistance to angular leaf spot and common bacterial blight in yellow beans. M.Sc Thesis, University of Nairobi.
- Lunjalu, J. 2007. Variability of iron, zinc and protein in common bean genotypes. M.Sc thesis, University of Nairobi.
- Musoni, A. 2007. Inheritance of resistance to Fusarium wilt (*F. oxysporum f.sp. phaseoli*) and selection of marketable climbing bean varieties with multiple disease resistance. M.Sc, University of Nairobi.
- Damaris, Odeny. 2007. Inheritance of resistance to Fusarium wilt in pigeonpea (*Cajanus cajan*, L. (Millsp)). M.Sc Thesis, University of Nairobi.
- Korir, M.K. 2006. Cross-border bean marketing between the northern zone of Tanzania and Nairobi, Kenya. M.Sc. Thesis, Moi University, Eldoret, Kenya.
- Kibiogo, M.B. 2006. Analyses of the structure, conduct and performance of the bean marketing system in Nairobi. M.Sc. Thesis, Moi University, Eldoret, Kenya.
- Mauyo, L. 2005. Cross-border bean marketing between eastern Uganda and Western Kenya. M.Sc. Thesis, Moi University, Eldoret, Kenya.
- Namayanja, A. 2003. Inheritance of resistance to angular leaf spot in two bean genotypes. M.Sc Thesis, Makerere University, Kampala, Uganda.
- Kimani J. M. 2002. Combining ability and heterosis for tolerance to low soil phosphorous and nitrogen in common beans (*Phaseolus vulgaris* L). M.Sc. Thesis, University of Nairobi.
- Kiprop, E.K. 1997. Characterisation of *Fusarium udum* Butler isolates in pigeonpea and host resistance in Kenya. **PhD** Thesis, University of Nairobi.
- Maengwe, E.O. 1997. M. Sc. Genetic variability in Kenyan pyrethrum population. M.Sc Thesis, University of Nairobi.
- Githiri S. Mwangi. 1995. Genetics of resistance to cowpea aphids. **PhD** Thesis, University of Nairobi.
- Abdalla, K. Anna. 1995. Factors affecting storability and germination of sorghum and pigeonpea seeds. **PhD**, University of Nairobi.

- Mbaratha, J. M. 1988. A study in growth performance, somaclonal variation and floral chemical composition of in vitro regenerated and mutagen treated pyrethrum plants. **PhD Thesis**, University of Nairobi.
- Okiror, M.A. 1986. Breeding for resistance to Fusarium wilt of pigeonpea. **PhD Thesis**, University of Nairobi.
- Oketayot Cirino Oyiki. 1992. Development of early maturity maize variety resistant to maize streak virus and high yield potential. **PhD Thesis**, University of Nairobi.
- Woyengo, V. W. 1996. Heterosis and combining ability in pyrethrum clones. **M.Sc Thesis**, University of Nairobi.
- Mutungu, S. L. 1991. Epidemiology and inheritance of resistance to rust (*Uromyces phaseoli* L.) in common bean. **M.Sc Thesis**, University of Nairobi.
- Kinoti, M.W. 1992. Effect of bulb size and duration of vernalization on seed yield of onions. **M.Sc Thesis**, University of Nairobi.
- Muniu, F. K. 1992. Effect of gibberellic acid (GA₃) and nitrogen application on seed yield and quality of onion (*Allium cepa* L). **M.Sc Thesis**, University of Nairobi.
- Utungo, T.M. 1992. Selection for multiple disease resistance and other agronomic traits in common bean. **M.Sc Thesis**, University of Nairobi.
- Owuor, E. D.U. 1992. **M.Sc.** Inheritance of resistance barley dwarf mosaic virus. **M.Sc Thesis**, University of Nairobi.
- Moseray, T.M. 1992. Genotype x environment interactions, genetic correlations and heritability in garden peas, *Pisum sativum* L. **M.Sc Thesis**, University of Nairobi.
- Khaemba, Edith. 1991. Estimates of combining ability and relationships among yield and yield components in early maturing maize (*Zea mays* L.) inbred lines. **M.Sc. Thesis**, University of Nairobi.
- Kariuki, J.W. 1991. Genotype x environment interaction, storage capacity and seed production in *Allium cepa*. **M.Sc Thesis**, University of Nairobi.
- Nguthi, F.N. 1991. Effect of nitrogen and plant density on yield of four onion varieties (*Allium cepa* L.). **M.Sc Thesis**, University of Nairobi.
- King'iri, A.N. 1991. Etiological studies of seed-borne *Alternaria porri* and its control in Kenya. **M.Sc Thesis**, University of Nairobi.
- Otsyula, R. M. 1991. Inter-genotypic interaction in common bean varieties (*Phaseolus vulgaris* L)'. **M.Sc Thesis**, University of Nairobi.
- Njenga, J. N. 1990. Combining ability and heterosis for yield and yield components in garden pea (*Pisum sativum* L.). **M.Sc**, University of Nairobi.
- Kamau, J. K. 1990. Inheritance of resistance to bean common mosaic virus, halo blight (*Pseudomonas phaseolicola*) and anthracnose (*Colletotrichum lindemuthianum*) in common bean (*Phaseolus vulgaris* L.). **M.Sc. Thesis**, University of Nairobi.

- Mugo, H.M.1990. Studies of insects pests attacking pigeon pea (*Cajanus cajan (L.) Millsp*) at reproductive stage and their effect on yield. M.Sc Thesis (Entomology), University of Nairobi.
- Ntimpirangeza, M.1990. Screening sweet potato cultivars for resistance to the sweet potato weevil. M.Sc Thesis, University of Nairobi.
- Mukindia, C.B. 1990. Response of pigeonpea (*Cajanus cajan (L.) Millsp.* to fertilizers. M.Sc., University of Nairobi.
- Sikinyi, O.E. 1987. Genetic variation and response of pigeonpea genotypes to inoculation with Rhizobium strain and phosphate fertiliser application. M.Sc. Thesis, University of Nairobi.
- Ikahu, J.M. 1987. Phenotypic variation in floral development and pyrethrin content in genetically different clones of pyrethrum clones, *Chrysanthemum cinerariifolium* vis. M.Sc Thesis, University of Nairobi.
- Tumwesigye, M.R. 1988. Heterosis and combining ability in common bean, *Phaseolus vulgaris* L. M.Sc Thesis, University of Nairobi.
- Githiri, S.M. 1988. Inheritance of dwarfism in pigeonpea. M.Sc. Thesis, University of Nairobi.
- Rwamugira, W.P. 1988. Effects of intercropping and plant density on growth, development and yield of pigeon pea (*Cajanus cajan (L.) Millsp.* in semi-arid conditions of Kenya. M.Sc Thesis, University of Nairobi.
- Siambi, M.I. 1988. Effect of photoperiod and temperature on partitioning of dry matter in vegetative and reproductive structures in pigeon pea (*Cajanus cajan (L.) Millsp.* M.Sc. Thesis, University of Nairobi.
- Wamatu, J.N. 1989. Genotype by environment interactions and stability analysis in pigeonpea. M.Sc Thesis, University of Nairobi.
- Shibairo, S.I. 1988. Effects of water stress during the reproductive phase on flower abscission, pod abortion and flowering pattern in pigeonpeas (*Cajanus cajan (L.) Millsp.*). M.Sc Thesis, University of Nairobi.
- Kiarie, A. W. 1988. Yield stability studies in some sweet potato (*Ipomea batatas (L.)* cultivars in Kenya. M.Sc. Thesis, University of Nairobi.
- Nyende, A.B.1989. Selection for resistance to *Fusarium* wilt and other agronomic traits in pigeonpea, *Cajanus cajan (L.) Millsp.* M.Sc Thesis, University of Nairobi.
- Njoya, E.W. 1989. Studies on pigeon pea leaf spot: Etiology and the effect of plant age and leaf position on susceptibility of pigeon pea (*Cajanus cajan (L.) Millsp*) to *Mycovellosiella cajani* L. M.Sc Thesis, University of Nairobi.
- Obukosia, S.D. 1983. *In vitro* interspecific hybridization between *Phaseolus vulgaris* L. and *P. acutifolius* A. Gray. M.Sc Thesis, University of Nairobi.
- Chumo, J. J. 1983. Diallel analysis of maize, *Zea mays* L. M.Sc Thesis, University of Nairobi.

5. RESEARCH PUBLICATIONS

5.1 Refereed Journal and Conference Research Papers

Kimani, P.M. and A. Warsame. 2019. Breeding second-generation biofortified bean varieties for Africa. *J. Food and Energy Security* 2019, DOI.org/10.1002/fes3.173 [May 2019] p1-17.[Wiley & Sons Ltd and the Association of Applied Biologists].

Kimani, P.M., S. Njau, M. Mulanya and R.D. Narla. 2019. Breeding runner bean for short-day adaptation, grain yield a, and resistance to diseases in eastern Africa. *J. Energy and Food Security*, 2019; 00:e171. <https://doi.org/10.1002/fes3.171> [April 2019], p1-12. [Wiley & Sons Ltd and the Association of Applied Biologists]

Kimani, P.M., S. Njuguna, A. Musyimi, R. Narla and M. Mbogori. 2019. New races of angular leafspot and anthracnose in eastern Africa and identification of sources of resistance. *Annual Report of the Bean Improvement Cooperative (BIC)* 62: 3-4.

Kimani, P.M., M. Mubalamana, S. Njuguna, A. Musyimi and R. D. Narla. 2019. Marker assisted gamete selection for multiple disease resistance and agronomic traits in inter-racial bean populations. *Annual report of the Bean Improvement Cooperative (BIC)* 62: 41-42.

Mondo, J. M., P.M. Kimani and R.D. Narla. 2019. Genotype x Environment Interactions on Seed Yield of Inter-racial common bean lines in Kenya. *World J. of Agricultural Research* 7:76-87.

Kimani, P.M. 2019. Demand-led Plant Breeding activities at the University of Nairobi. Demand led Plant Breeding Workshop, 29-30 May 2019, Addis Ababa, Ethiopia.

Kataliko, R.K., P.M. Kimani, J.W. Muthomi, S. W. Wanderi, F.M Olubayo and F. Nzube. 2018. Combining ability of resistance to pod shattering and selected agronomic traits of soybean. *International J. Agricultural Policy and Research* 6: 176-188. [<https://doi.org/10.15739/IJAR.18.020>]

Yuga, M.E., J.M. Kimani, P.M. Kimani, M.F. Olubayo, J.W. Muthomi and F.M Nzube. 2018. Combining ability and heterosis for agronomic and yield traits in Indica and Japonica rice crosses. *J. Agricultural Science* 10: 92-103 [<http://doi:10.5539/jas.v10n12p92>]

Kimani, P.M., A. Warsame, S.N. Njau, M. Njiru, P. Waidhima and S. Omondi. 2018. Development and release of new stress tolerant canning beans for smallholder farmers in eastern Africa. In: M. Ogot (ed.). *Proceedings of the Second Innovation Research Symposium*, 6 March 2018. University of Nairobi, Kenya.

Mulanya, M. M., P.M. Kimani and R. D. Narla. 2018. Genotypic performance of short-day runner (*Phaseolus coccineus*) lines combining high grain yield and disease resistance. *J. Agricultural Science* 10: 54-64. [doi: 10.5539/jas.v10n12p54; URL: <https://doi:10.5539/jas.v10n12p54>]

Mbikayi, N., A.D. Mumba, P.M. Kimani, R. Kizungu and C. Mirindi. 2018. Identification of biofortified beans (*Phaseolus vulgaris* L.): Case study on genetic diversity, relationship and rates of iron and zinc concentration in farmers' accessions in eastern DR Congo. *International J. of Innovation and Applied Studies* 25: 131-139. [[http: www.ijias.issr-journals.org/](http://www.ijias.issr-journals.org/)]

Kimani, P.M., S. Njau, M. Njiru and S. Omondi. 2018. Breeding runner bean for the canning industry in eastern Africa. *Annual report of the Bean Improvement Cooperative (BIC)* 61: 131-132.

Kimani, P.M., A. Warsame and S.N. Njau. 2018. Breeding second generation biofortified bean varieties in Eastern Africa. *Annual report of the Bean Improvement Cooperative (BIC)* 61: 133-134.

Ng'ayu-Wanjau, Beatrice, Rob Melis, Mwangi Githiri, Julia Sibiya, and Paul Kimani. 2016. Development of a breeding method for durable resistance to angular leaf spot in common bean. *Euphytica* 208: 91-100.

Shimelis, H., P. Tongoona, P.M. Kimani, N. Yao, R. Chirwa, J.C. Rubyogo, V. Anthony and G. Persley. 2018. Demand-led plant breeding approaches: implications for cultivar adoption and commercialization in Africa. *Proceedings of the 11th South African Plant Breeding Association (SAPBA) Symposium*. 8-10 March 2016, Stellenbosch, South Africa.

Kimani, P.M. 2018. Demand Plant Breeding: Theory and experiences from Eastern Africa. *Africa-Australia Universities Network (AAUN) Workshop*, 29-31 January 2018, University of Mauritius, Mauritius.

Kimani, P.M., R.D. Narla, S. N. Njau, A. Warsame, P. K. Waidhima, M. Njiru and S. Omondi. 2018. Contributing to the Big Four Development Agenda: Innovations from Legume Breeding and Seed Program for a Better Future. *Second Innovation Research Symposium and the Third Innovation Week*, 5-10 March 2018, University of Nairobi, Kenya .

Cheptoo, J.J., P. M., Kimani and R. D. Narla. 2018. Components of variance and heritability of climbing capacity in snap bean crosses. *Sixth African higher education week RUFORUM Biennial Conference*, 22-26 October 2018, Nairobi, Kenya.

Kimani P.M., Anthony V.M., Chirwa R., Danquah A., Danquah E., Edema R., Gibson P., Hussein S., Mignouna J., Persley G.J., Rubyogo J.C., Tongoona P., and Yao N. 2018. Improved crops for Africa: Leadership in Demand-Led Breeding, education and catalyzing policy development. *Sixth African higher education week RUFORUM Biennial Conference*, 22-26 October 2018, Nairobi, Kenya.

Kathimba, F.K., Narla, R.D., Kiriika, L.M., and P.M. Kimani. 2018. Combining ability and heterosis for bacterial wilt, fruit yield and yield attributes of tomatoes in Kenya. *Sixth African higher education week RUFORUM Biennial Conference*, 22-26 October 2018, Nairobi, Kenya.

Kathimba, F.K., P.M. Kimani, L.M., Kiriika, and R.D. Narla. 2018. Heterosis for fruit yield, yield components and bacterial wilt resistance and of tomatoes genotypes in Kenya. *Sixth African higher education week RUFORUM Biennial Conference, 22-26 October 2018, Nairobi, Kenya.*

Kataliko K. R., P.M. Kimani, J.W. Muthomi and W.S. Wanderi. 2018. Resistance of pod shattering and agronomic traits in soybean. *Sixth African higher education week RUFORUM Biennial Conference, 22-26 October 2018, Nairobi, Kenya.*

Kataliko K. R., P.M. Kimani, J.W. Muthomi, W.S. Wanderi and F. Olubayo. 2018. Combining ability of pod shattering resistance and selected agronomic traits of soybean. *Sixth African higher education week RUFORUM Biennial Conference, 22-26 October 2018, Nairobi, Kenya.*

Mario E.Y., P.M. Kimani and J.M. Kimani. 2018. Physico-chemical and cooking quality of Indica And Japonica rice crosses in Kenya. *Sixth African higher education week RUFORUM Biennial Conference, 22-26 October 2018, Nairobi, Kenya.*

Mario E.Y., P.M. Kimani and J.M. Kimani. 2018. Combining ability and heterosis for agronomic and yield traits in Indica and Japonica rice crosses. *Sixth African higher education week RUFORUM Biennial Conference, 22-26 October 2018, Nairobi, Kenya.*

Mondo, M.J., P. M. Kimani and R.D. Narla. 2018. Marker-assisted gamete selection for multiple disease resistance and grain yield in inter-gene pool and inter-racial populations of common bean. *Sixth African higher education week RUFORUM Biennial Conference, 22-26 October 2018, Nairobi, Kenya*

Jean M. Mondo, Paul M. Kimani and Rama D. Narla. 2018. Seed yield stability and genotype-environment interaction effects on small red inter-racial common bean lines. *Sixth African higher education week RUFORUM Biennial Conference, 22-26 October 2018, Nairobi, Kenya*

Kimani, P.M., R.D. Narla, S. Njuguna, A. Musyimi, S. Njau and J. Orende. 2018. New disease strains threaten bean production in Eastern Africa. *Sixth African higher education week RUFORUM Biennial Conference, 22-26 October 2018, Nairobi, Kenya.*

Kimani, P.M., S. Njau, M. Mulanya and R. D.Narla. 2018. Breeding runner bean for short-day adaptation, grain yield and disease resistance. *International Tropical Agriculture Conference (TROPAG), 20-22 November 2017, Brisbane, Australia, Book of Abstracts, p37.*

Yao, N.K., P.M. Kimani, S. Hussein, T. Pangirayi, R. Chirwa, J.C. Rubygo, V. Anthony, G. Parsley and A. Djikeng. 2018. Demand-led variety design: Make Plant Breeding in Africa a Business Responsive to Market Demand. *International Tropical Agriculture Conference (TROPAG), 20-22 November 2017, Brisbane, Australia, Book of Abstracts, p60.*

Kimani, P.M., S.N. Njau and R.D Narla. 2018. Breeding snap bean for domestic and export markets in Eastern Africa. *International Tropical Agriculture Conference (TROPAG), 20-22 November 2017, Brisbane, Australia, Book of Abstracts, p68.*

Kimani, P.M. and S. N. Njau. 2018. Breeding runner beans for canning industry in Kenya. International Tropical Agriculture Conference (TROPAG), 20-22 November 2017, Brisbane, Australia, Book of Abstracts, p112.

Kimani, P.M. 2018. Breeding second-generation biofortified bean varieties for Africa. *International Tropical Agriculture Conference (TROPAG)*, 20-22 November 2017, Brisbane, Australia, Book of Abstracts, p113.

Kimani, P.M. 2018. Advances in market oriented breeding approaches in Eastern Africa. *Legumes for Life Workshop*, Stellenbosch University, 2-4 May 2018 Stellenbosch, South Africa

Kimani, P.M. 2018. Demand-led breeding: Case studies in Eastern Africa. *CGIAR Excellence in Breeding Platform (EiB)* 13-15 November 2018, Amsterdam, Netherlands.

Kimani, P.M. 2018. Uniseed Kenya Limited: Dry bean products. Legumes for Life Workshop, 12-15 June 2018, University of Leeds, Leeds, United Kingdom.

Kimani, P.M. 2018. Uniseed Kenya Limited: Climbing bean products. Legumes for Life Workshop, 12-15 June 2018, University of Leeds, Leeds, United Kingdom.

Kimani, P.M. 2018. Uniseed Kenya Limited: Canning bean products. Legumes for Life Workshop, 12-15 June 2018, University of Leeds, Leeds, United Kingdom.

Kimani, P.M. 2018. Uniseed Kenya Limited: Biofortified bean products. Legumes for Life Workshop, 12-15 June 2018, University of Leeds, Leeds, United Kingdom.

Kimani, P.M. 2018. Uniseed Kenya Limited: Snap bean products. Legumes for Life Workshop, 12-15 June 2018, University of Leeds, Leeds, United Kingdom.

Kimani, P.M. 2018. Uniseed Kenya Limited: Runner bean products. Legumes for Life Workshop, 12-15 June 2018, University of Leeds, Leeds, United Kingdom.

Kimani, P.M. 2018. Uniseed Kenya Ltd: Your preferred supplier of high quality certified breeder seed. Legumes for Life Workshop, 12-15 June 2018, University of Leeds, Leeds, United Kingdom.

Kimani, P.M., P. Komu, J. Mudioppe and P. Githuka. 2017. Genotypic variation in flatulence causing oligosaccharides in biofortified and commercial dry bean varieties. *Annual report of the Bean Improvement Cooperative (BIC)* 60: 159-160.

Kimani, P.M., P. Komu and S.N. Njau. 2017. Comparison of cooking time of commercial bean varieties and new breeding lines developed in Eastern Africa. *Annual report of the Bean Improvement Cooperative (BIC)* 60: 153-154.

Kimani, P.M., P. Mamiro, M. Ugen and A. Musoni. 2016. Development and release of new biofortified bean varieties in Eastern Africa. *Annual report of the Bean Improvement Cooperative (BIC)* 59: 147-148.

Kimani, P.M. and A. Warsame. 2016. Advances in breeding stress tolerant, market demanded canning bean varieties in Kenya. *Annual report of the Bean Improvement Cooperative (BIC)* 59: 205-206.

Kimani, P.M., M.M. Mulanya, S. Njau and R.D. Narla. 2016. Breeding runner bean for short-day adaptation in Eastern Africa. *Annual report of the Bean Improvement Cooperative (BIC)* 59: 207-208.

Kimani, P.M., R.D. Narla, M. Ugen, C. Onyango, S. Kibet and A. Musoni. 2016. Development and validation of new snap bean varieties for Eastern Africa. *Annual report of the Bean Improvement Cooperative (BIC)* 59: 227-228.

Kimani, P.M. 2017. Principles of demand-led plant variety design (Chapter 1). In: G.j. Persley and V.M. Anthony (eds.), *The Business of Plant Breeding. Market-led approaches to new variety design in Africa*. CABI (CAB International), Wallingford, Oxfordshire OX10 8DE, United Kingdom, pages 1-25.

Kimani, P.M. 2017. Demand-led breeding training at the University of Nairobi. The Future of Small Farms International Conference and the Demand Led Consortium Workshop, 22-26 January 2017 Syngenta Conference Center, Rosentalstrasse, Basel, Switzerland.

Kimani, P.M. 2016. Advances in breeding biofortified bean varieties in Kenya. In: Role of Science and Technology in the Post-2015 Development Agenda: *Proceedings of the National Science Week*, 11-15 May 2015, Chancellor's Court, University of Nairobi, Kenya, p4-7.

John G. N. Muthamia, Paul M. Kimani, George Chemining'wa and Anthony O. Esilaba. 2016. Enhancing phosphorus and nitrogen fixation and productivity of dry bean genotypes in phosphorus and nitrogen limited areas of the central Kenya highlands through *Rhizobium*, *Azospirillum* rhizobacteria-rhizobium co-inoculation. In: Role of Science and Technology in the Post-2015 Development Agenda: *Proceedings of the National Science Week*, 11-15 May 2015, Chancellor's Court, University of Nairobi, Kenya, p18-24.

Mulanya, M., P.M. Kimani and R. D. Narla. 2016. Selection of short-day adaptation and pod quality in vegetable runner bean. In: Role of Science and Technology in the Post-2015 Development Agenda: *Proceedings of the National Science Week*, 11-15 May 2015, Chancellor's Court, University of Nairobi, Kenya, p33-38.

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Musoni, A., P.M. Kimani, R.D. Narla and R. Buruchara. 2007. Inheritance of resistance against Fusarium wilt disease in climbing beans. *Third Biotechnology, Breeding and Seed Systems* conference, 26-29 March 2007, Maputo, Mozambique. The Rockefeller Foundation.

Kimani, P.M. and P.N. Drolsom. 1983. Rate and duration of grain fill in corn. *Agronomy Abstracts* (1983), p.69.

8. CONFERENCE/CONGRESS/SYMPOSIA/SEMINAR AND PROFESSIONAL MEETINGS ATTENDED

2013

- Monitoring and evaluation review workshop, ASARECA, 19-21 August 2013, Nairobi, Kenya
- Development of Environmental and Social Safeguards (ESS) Instruments and Compliance Monitoring Criteria for ASARECA, 22 – 23 August 2013 in Nairobi, Kenya
- Snap bean inception meeting, 21-22 April 2013, Nairobi, Kenya
- The Ruforum Monitoring and Lesson-Learning Meeting, 25-26 February 2013, CAVS, University of Nairobi, Kenya
- First Bio-innovate Biennial Regional Scientific Conference, 25-27 February 2013, Addis Ababa, Ethiopia
- Integrated Seed Sector Development (ISSD) in Africa: International Synthesis Workshop, 8-10 April 2013, College of Agriculture and Natural Resources (CANR), Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.
- Bean for Climate Change Consortium Mid-Term Review Meeting, 20 February 2013, CAVS, University of Nairobi, Kenya
- Bean for Climate Change Consortium Second Review and Planning Meeting, 20-23 January 2013, Kigali, Rwanda
- ASARECA Training workshop on Environmental & Social Safeguards, Kigali, 6th – 7th March 2013
- Data management, analysis and project monitoring training workshop, 17th – 22nd, March 2013, CHAK Guesthouse, Nairobi, Kenya. ASARECA.
- M & E training on the use of automated monitoring, evaluation and reporting system (MER) 1-3 April 2013, Kampala, Uganda. ASARECA.
- Training workshop on AIS and VCD for teams on new ASARECA projects, 25 Feb-1 March 2013, Nairobi, Kenya.

2012

- The Third Ruforum Biennial Regional Conference, 24-28 Sep 2012 Imperial Resort Beach Hotel, Entebbe, Uganda
- Bean value chain workshop, Kampala, Uganda. Kilimo Trust. 8-9 January 2012.
- Seed enterprises management institute (SEMI) curriculum and program review meeting, Kenya School of Monetary Studies, Nairobi, Kenya. 19-21 March 2012. SEMI, University of Nairobi.
- Second workshop on Bean value chains, Kampala, Uganda. 25-30 March 2012. Kilimo Trust.

- ASARECA Snap bean proposal development workshop, Rider Hotel, Mukono, Uganda. 28 October- 4 November 2012
- Antoine Lubombo PhD thesis examination and seminar. University of Lubumbashi, Lubumbashi, DR Congo. 23-28 July 2012.

2011

- ECABREN SC Meet, 17-22 Jan 2011, Bujumbura, Burundi. Pan African Bean Research Alliance, Kampala, Uganda.
- *Agro2011 Inaugural Biennial Conference*, 26-28 September 2011, College of Agriculture and Veterinary Sciences, University of Nairobi, Nairobi, Kenya.
- Bio-Innovate Inception workshop, 15-18 March 2011, Nairobi, Kenya.
- The Fifth Kirkhouse Trust African Bean Consortium workshop, 21-24 June 2011, Kampala, Uganda
- Snap bean End of Project Workshop, 9-10 August 2011, Agriculture Information Center, Nairobi, Kenya
- Pulses Crops APVC Stakeholders Workshop 6th – 9th February 2011, KARI- Embu – KENYA .
- Nutribean Annual review and Planning workshop, 12-13 February 2011, Thika, Kenya.
- Carleton College Students training workshop on African Agriculture, 22 Feb – 4 March 2011, College of Agriculture and Veterinary Sciences, University of Nairobi, Kabete, Kenya.

2010

- HarvestPlus Workshop, 11-12 February 2010, Kigali, Rwanda.
- Biofortified Bean Dissemination Strategy Workshop, HarvestPlus, 17-19 May 2010, Kigali, Rwanda.
- ECABREN Steering Committee Meeting 15-21 February 2010 Arusha, Tanzania.
- Kirkhouse Trust African Bean Consortium Workshop III, 17-21 May 2010, Morogoro, Tanzania.
- Pan African Bean Research Alliance Markets Working Group Workshop, 22-26 February 2010, Nairobi, Kenya.
- Fourth Nutribean Review and Planning workshop, 6-9 June 2010, Embu, Kenya.
- PABRA Phase IV Quarterly Review and Planning workshop, 8-10 January 2010, Kampala, Uganda.
- Board of Postgraduate Studies Workshop, 26-28 May 2010. Kenya School of Monetary Studies, Nairobi, Kenya. University of Nairobi, Nairobi, Kenya.
- Southern African bean Research Network Steering Committee Workshop, 4-6 October 2010, Maputo, Mozambique.
- Snap bean Stakeholders Workshop, 2 March 2010. Agric Information Center, Nairobi, Kenya.
- Breeding in PABRA: Strategic Directions and Research Highlights workshop, 26-28 January 2010. CIAT, Kampala, Uganda.
- PABRA Semi-Annual Review and Planning Meeting 1-3 August 2010 Kampala, Uganda.

- International Symposium and Consultation on Climate Change, 29-31 March 2010, Arusha, Tanzania.
- West African Bean Research Network Workshop, 17-21 January 2010, Accra, Ghana.
- Generation Challenge Program, Third Tropical Legumes Annual Review and Planning Workshop, 22 August- 3 September 2010, Madrid, Spain.
- ASARECA Conference on Climate Change, 7-9 June 2010, Addis Ababa, Ethiopia.
- Second Annual Review and Planning Meeting, 16-20 November 2009, Bamako, Mali, p58-63.

2009

- CIATs bean breeding strategy in Africa workshop, 15-18 May 2009, Cali, Colombia.
- Tropical Legumes I Annual Review and Planning Workshop, 15-21 April 2009 Lilongwe, Malawi
- Fertiliser Use: Effect of zinc fertilisation on nutrition and food quality Workshop. 26-27 March 2009, Nairobi, Kenya.
- PABRA- TL II Breeding Strategy Workshop 9-10 February, Lilongwe, Malawi.
- Tropical Legumes I Annual Review and Planning Workshop, 15-21 April 2009 Lilongwe, Malawi.
- PABRA Joint SC Workshop 7-13 February 2009 Lilongwe, Malawi.
- PABRA Joint SC Workshop 7-13 February 2009 Lilongwe, Malawi.
- PABRA- TL II Breeding Strategy Workshop 9-10 February, Lilongwe, Malawi
- Peer Review Workshop, 9 November 2009, College of Agriculture and Veterinary Sciences (CAVS) University of Nairobi, Nairobi, Kenya
- CIAT's breeding strategy in PABRA region (poster). *Knowledge Sharing Week*. 17-23 May 2009, Cali, Colombia.
- Kirkhouse Trust Bean Workshop II, 16-18 March 2008 Kampala, Uganda
- East and Central African Bean Research Network work plan, 2009-2010: Implications for ISABU bean program, ISABU scientists meeting, 2-4 July 2009, Bujumbura, Burundi.
- Annual Review and Planning Meeting of the Southern Africa Bean Research Network Steering Committee. 13-16 October 2009 Porchestroom, South Africa.
- Pan African Bean Research Alliance Phase II: Implications for East and Central Africa Bean Research Network programs, Selian Agricultural Research Institute. 10-11 August 2009, Arusha, Tanzania.
- Pan African Bean Research Alliance Steering Committee Workshop, 7-10 April 2009, Nairobi, Kenya.
- Regional Training on Distinctiveness, Uniformity and Stability (DUS) testing workshop. 6-9 July 2009, KEPHIS- Lanet, Nakuru, Kenya
- Research Review Workshop, College of Agriculture and Veterinary Sciences, University of Nairobi, Nairobi, Kenya. 3 November 2009.
- Canning bean stakeholder workshop, 3 November 2009, Agricultural Information Center, National Agricultural Laboratories, Nairobi, Kenya

2008

- PABRA stakeholders workshop 21-29 Jan 2008, Kampala, Uganda
- Tropical legumes Seed systems and breeding stakeholders workshop, 8-17 January 2008, Nazareth, Ethiopia
- International Center for Tropical Agriculture Review and Planning meeting, 5-18 April 2008, Cali, Colombia
- Drought phenotyping workshop, 5-11 May 2008, Lilongwe, Malawi
- Participatory variety selection workshop, 22 -27 Sept 2008, Nazareth, Ethiopia

- Tropical Legumes II Annual Review and Planning workshop, 29 Sept -4 October 2008, Addis Ababa, Ethiopia
- HarvestPlus Planning workshop, 6-11 October 2008, Bukavu, DR Congo.
- Joint ECABREN and SABRN Steering Committee Review and Planning Workshop, 19-25 October 2008, Lilongwe, Malawi.

2007

- Pan-African bean research alliance review and planning workshop, 21-27 January 2007, Nyeri, Kenya.
- Kirkhouse Trust East African Bean Research Workshop, 19-21 February 2007, Nairobi, Kenya.
- IPHIS regional training workshop, 26-28 Feb 2007, Nairobi, Kenya
- Legume-Rhizobium symbiosis regional workshop, 1-8 March 2007, Nairobi, Kenya
- East and Central Africa bean Research Network planning and review workshop, 12-16 March 2007.
- Third Biotechnology, Breeding and Seed Systems conference, 26-29 March, Maputo, Mozambique. Rockefeller Foundation and Instituto de Investigacao de Mocambique (IIAM).

2006:

- Biofortification and Snap bean Workshop, 3-6 March 2006, Mukono, Uganda
- HarvestPlus Regional Workshop, 2-6 May 2006, Mombasa, Kenya.
- Agrobiodiversity: Annual Review Meeting. 6 – 19 May, CIAT, Cali, Colombia.
- BMZ –BMGF workshops on breeding beans tolerant to low soil fertility and drought in eastern Africa. 25 June -3 July, Kigali, Rwanda.
- Developing and disseminating drought adapted grain legumes Workshop. 29 June – 1 July 2006, Kigali, Rwanda
- Nutribean inception and planning workshop, 7-12 August 2006, Nyeri, Kenya
- Bean Strategy: Current status and future directions Workshop, 22-25 August 2006 CIAT, Cali, Colombia
- CIALCA Second Planning Workshop on Enhancing the resilience of agro-ecosystems in Central Africa, 28 August -1 Sept 2006 Kigali, Rwanda.
- Pan-African Bean Research Alliance Joint External Evaluation(JEEP) Workshop, 13-14 Sept 2006, Kampala, Uganda.
- FARA-PABRA Bean Stakeholders workshop West Africa. 3-6 Oct., Accra, Ghana.
- Snap Bean Stakeholders Workshop, 11-12 Oct 2006 Thika, Kenya.
- Cultivation of Common Bean in Low input Systems: Bridging expectations, Accomplishments and further Needs Workshop, 22-25 November 2006 Cali,

2005:

- Second biotechnology, breeding and seed systems conference, Rockefeller Foundation Workshop, 23-27 January 2005, Nairobi, Kenya
- Grain Legume Planning Workshop, 29-30 March 2005, Yaounde, Cameroon.
- Center of Microbial and Plant Genetics (CMPG) workshop, 1-3 April 2005, Leuven, Belgium.
- Workshop on evaluation of candidate varieties in national performance trials, 22-23 September 2005, Nakuru, Kenya. Kenya Plant Health Inspectorate.

- CGIAR- AFSTA Seed systems workshop, 17-19 Oct 2005, Nairobi, Kenya
- Pan-African Bean breeders' workshop, 7-12 June, Kampala, Uganda.
- HarvestPlus Reaching End Users Workshop, 5-7 June 2005, Kampala, Uganda.

2004:

- South African Plant Breeding Workshop, 17-18 March 2004, Durban, South Africa
- Acid Soils Workshop, 25-27 February, 2004, CIAT, Cali, Colombia.
- National Bean Workshop, 25-29 May 2004, Nakuru, Kenya.
- Participatory breeding workshop, 17-25 May 2004, Kakamega, Kenya. Pan African Bean Research Alliance, Kampala, Uganda.

2003:

- Biofortification Challenge Program, bean planning meeting, 30 Sept- 4 Oct 2003, Naivasha, Kenya.
- Participatory Breeding Training Workshop, 12-15 May, Kakamega, Kenya.
- African Crop Science Conference, 12-17 Oct 2003, Nairobi, Kenya.

2002:

- FAO workshop on 'Strengthening Seed delivery Systems in Kenya'. 12-24 June 2002, Machakos, Kenya.
- National Dry land Farming Workshop, 14-18 January 2002, Egerton University, Njoro, Kenya.
- Workshop on 'Biotechnology, Breeding and Seed Systems for African Crops: 'Research and product development that reaches Farmers'. 4-7 November, Entebbe, Uganda. The Rockefeller Foundation.
- Workshop on development of promotional materials, 10-15 February 2002, Mangochi, Malawi.

2001:

- Novel Plant breeding approaches to fight micronutrient deficiencies: An exploratory workshop , 29-30 January 2001, Cali, Colombia: Delivering sustainable solutions to hidden hunger: Staple crop biofortification to combat micronutrient deficiency : a proposal planning workshop, 28-30 March 2001 , Cali, Colombia.
- International Symposium on Participatory Plant Breeding: Exchange of experiences on participatory plant breeding and germplasm conservation in Africa, 7-10 May 2001, Mbouke, Ivory Coast.
- Pan-African Bean Research Alliance Millennium Symposium, 28 May –1 June 2001, Arusha, Tanzania.

2000:

- First Regional workshop on harmonization of seed policies and regulations in Eastern Africa , ASARECA/ECAPAPA , March 2000 Entebbe , Uganda
- Second Regional workshop on harmonization of seed policies and regulations in Eastern Africa , ASARECA/ECAPAPA 26-30 June 2000, Arusha Tanzania.
- Regional workshop on pigeonpea improvement in East, Central and Southern

Africa , 16- 18 Sept 2000, Nairobi, Kenya.

- Ninth Congress of the African Association for Biological Nitrogen Fixation, 25-29 September 2000, Nairobi, Kenya (Keynote speaker).

1999:

- Pan-African Bean breeders and pathologists workshop, May-June, Nairobi, Kenya
- National Seed Production Policy formulation workshop, Nairobi , Kenya
October 1999.

1998:

- Seed Production and Research Workshop, June 1998, Eldoret ,Kenya.
- Development of research network workplans for ASARECA, Entebbe, Uganda (May-June 1998).

1997:

- All Africa Crop Science Congress, 13 to 17 January 1997, Pretoria, South Africa.
Workshop on Funding of Agricultural Research: Experiences and Future Perspectives. 11 -12 March 1997. KARI Headquarters, Nairobi, Kenya.
- Workshop on pyrethrum improvement in Kenya, 3 April 1997. Pyrethrum Board of Kenya, Nakuru, Kenya.
- East and Central Africa Bean Research Network Workshop, 12 to 16 May 1997.
Embu Kenya.
- CIAT/ECABREN Breeding Working group workshop, 19 to 22 May 1997.
Embu, Kenya.

1995:

- The second Crop Science conference for Eastern and Southern Africa, 19-24 February 1995, Blantyre, Malawi.
- The Second Pan Africa Pathology Workshop, 5-8 June 1995, Kakamega, Kenya.

1994:

- Second National Bean Research and Extension workshop, 2-4 March 1994, Thika, Kenya (Rockefeller Foundation, CIAT and KARI).
- On-farm trials Training workshop, June 29- July 1, 1994. Embu, Kenya.
- The second national workshop on Plant Genetic Resources, 15-17 February 1994, Nairobi, Kenya.
- East African Bean Breeder Meeting, May 31, to June 3, 1994, Kampala, Uganda.
- First Regional Workshop on Alliums in Eastern Africa, 20-23 September 1994, Nairobi, Kenya.

1993:

- International symposium on Alliums in the Tropics, Bangkok, Thailand , 19-22 February 1993.
- Third Regional workshop on Bean Research in Eastern Africa, 19-23 April 1993, CIAT/KARI, Thika ,Kenya.
- The International Union for the Protection of New Varieties of Plant (UPOV) workshop, 28-29 May 1993, Nairobi, Kenya.

- First Crop Science Conference for Eastern and Southern Africa, 14-18 June 1993, Kampala, Uganda.
- Review and planning meeting for pigeonpea improvement in Eastern and southern Africa, 24-27 October 1993; Bulawayo, Zimbabwe.

1992:

- Regional symposium on Biotechnology, 17-21 February 1992, ILRAD, Nairobi, Kenya.
- First African Development Bank/ ICRISAT pigeonpea improvement project meeting for directors and senior scientists, 17-19 March 1992, Nairobi, Kenya.

1991:

- Consultative group meeting on sorghum and pigeonpea. 18-19 September 1991. ICRISAT/KARI, Nairobi, Kenya.

1990:

- Second Regional Workshop on Bean Research in Eastern Africa. Organised by 5-8 March 1990, Nairobi, Kenya. Centro Internacional de Agricultura Tropical (CIAT).
- ICRISAT Pigeonpea Scientists Meeting. 22-27 June 1990. Nairobi, Kenya.
- International Sorghum Scientists Field Day, 18-20 September, 1990. ICRISAT Centre, Patancheru, India.
- Seed production and dissemination workshop, 3-11 November 1990, Singapore, Singapore. International Development Research Center (IDRC), Ottawa, Canada.

1989:

- Seed production and dissemination mechanisms workshop, 19 - 22 March, 1989. London, United Kingdom
- Sabbatical leave at Ben Gurion University of the Negev, April 1989 – Feb. 1990.

1988 :

- First Symposium of the Crop Science of Kenya. 4-8 July 1988. Nairobi, Kenya.
- International Workshop on Plant Genetic Resources. 26-30 September 1988. IBPGR/IITA/FAO. Nairobi, Kenya.

1987:

- ICRISAT Pigeonpea Scientists Meet. 2-5 June 1987. Nairobi, Kenya.
- International Symposium on New Crops for Food and Industry. 22-25 September 1987. University of Southampton, Southampton, United Kingdom.

1986:

- Workshop on pigeonpea in Eastern Africa. 8-11 April 1986. Nairobi, Kenya.
- International workshop on Asian Grain Legumes/Australian Center for International Agricultural Research (ACIAR). 1-5 September 1986, Khon Khaen, Thailand.

1985:

- ICRISAT Pigeonpea Scientists Meeting. 18-20 March 1985, Gwalior, India.
- Fifth ICRAF- USAID Workshop on Agroforestry. 4-23 November, 1985. Nairobi, Kenya. (Presented a paper).
- International Society for Horticultural Science, 12th African Horticultural Symposium. 24-30 November 1985. Nairobi, Kenya. (Presented a paper).

1984:

- First Conference of the African Association for Biological Nitrogen Fixation (AABNF), 23-27 July 1984.

- International Crops Research Institute for Semi-arid tropics (ICRISAT) Pigeonpea Scientists' Meet, 18-20 October 1984. Haryana Agricultural University, Hisar, India. (Presented a paper).

1983: Annual meeting of ASA, CSSA, AND SSSA. 14-19 August 1983. Washington, D.C., U.S.A. (Presented a paper).

1982: Annual meetings of American Societies of Agronomy (ASA), Crop Science (CSSA) and Soil Science (SSSA). 1-5 December 1982. Anaheim, California., U.S.A

1981: American Society of Agronomy Annual Meeting-North Central Region, University of Missouri, Columbia. June 29- 3 July 1981, Columbia, Missouri, U.S.A.

1979: Farm Economics Workshop -organised by Ministry of Agriculture and Livestock Development, and CIMMYT. 5-11 September 1979, Nairobi, Kenya.

9. INVITED LECTURES

Kimani, P.M. 2009. Breeding micronutrient dense bean varieties. Regional Training on Distinctiveness, Uniformity and Stability (DUS) testing workshop. 6-9 July 2009, KEPHIS-Lanet, Nakuru, Kenya

Kimani, P.M. 2009. Breeding micronutrient dense varieties in Central and East Africa. Invited key note paper presented to academic staff. 3 November 2009, Research Review Workshop, College of Agriculture and Veterinary Sciences, University of Nairobi, Nairobi, Kenya.

Kimani, P.M. 2009. Bean improvement in Kenya: An Overview of canning bean sub-sector. Invited key note paper. Canning bean stakeholder workshop, 3 November 2009, Agricultural Information Center, National Agricultural Laboratories, Nairobi, Kenya.

Kimani, P.M., S. Beebe and M. Blair. 2007. Breeding micronutrient dense bean varieties in East and Central Africa. Presented at BIC/NAPIA 50th Anniversary Conference, 29 Oct-2 November 2007, Madison, Wisconsin, USA. (Invited paper)

Kimani, P.M. 2002. Improvement of grain legumes for the semi-arid lands: Status, problems, achievements and potential. Keynote invited paper presented at the National Dry land Farming Workshop, 14-18 January 2002, Egerton University, Njoro, Kenya.

10. EXAMINERSHIP

1997-2005: Seed Science and Agronomy M.Phil. courses, Moi University, Eldoret.

1996-2002: Horticulture courses, Jomo Kenyatta University of Agriculture, Juja.

1998-2007: Agronomy courses, Egerton University, Njoro.

11. INVITED REVIEWS AND EDITORSHIP OF JOURNALS AND OTHER PUBLICATIONS

2011: American Crop Science Journal, Madison, Wisconsin

2010: Euphytica- International Journal of Plant Breeding

2010: Technical Handbook, Ministry of Agriculture, Nairobi, Kenya

2005-2007: CIAT in Africa Highlights

1990-1994: Editor: *Pigeonpea Newsletter*- a publication of IDRC/ University of Nairobi, Pigeonpea Project.

12. COMPLETED RESEARCH PROJECTS

2011-2013: Co-PI, Value added bean technologies for enhancing Food Security, Nutrition, Income and Resilience to cope with Climate Change (BioInnovation East and Central Africa, Swedish International Development Agency, SIDA)

2010-2013: PI, Regional PI Tropical Legumes I, Eastern and Southern Africa (Generation Challenge Program, Mexico)

2000-2010: PI, Collaborative bean improvement project, East and Central Africa (CIDA, SDC and Rockefeller Foundation), and West Africa (2005-2010)

2009-2013: PI, Marker assisted breeding-Kirkhouse Trust, UK

2009-2013: PI, HarvestPlus Challenge Program, Eastern Africa (Bill and Melinda Gates Foundation) (Phase II)

2007-2010: PI, Regional PI Tropical Legumes I, Eastern and Southern Africa (Bill and Melinda Gates Foundation)

2007-2010: PI, Regional PI Tropical Legumes II, Eastern and Southern Africa (Bill and Melinda Gates Foundation)

2006-2012: PI Nutribean project (VLIR- Belgium)

2006-2010: Co-PI Snap improvement bean project (ASARECA/European Union)

2003-2008 PI, Biofortification project-HP , Bill and Melinda Gates (Phase I)

2005-2008: PI, Regional biofortification project (ASARECA/USAID)

2001-2007: Breeding bean for resistance to root rots and angular leafspot (Rockefeller Foundation)

2001-2004: Breeding and mechanisms for aluminium tolerance (BMZ-GTZ, Germany)

1999- 2008: Collaborative regional bean projects (PABRA/ECABREN)

1996-2000: Pigeonpea breeding production and seed systems (European Union/ICO-DC)

1996-2000: Pigeonpea improvement (Belgian Administration for Development Cooperation, BADC)

1996-1998: Potato breeding, German-Israel Fund for Research and International Development (GIFRID)

1995-1996: Seed delivery systems for beans (ECABREN/CIAT)

1994-1999: Pyrethrum breeding and production systems, Pyrethrum Board of Kenya

1993-1995: Bean breeding and crop protection, Rockefeller Foundation

1992-1996: Breeding for resistance in common bean, Agricultural Research Fund, KARI.

1990-1995: Onion breeding and seed production, German-Israel Fund for Agricultural Research, (GIARA)

1989-1990: Drought physiology and breeding, Koret Foundation and Ben Gurion University, Israel.

1983-1992: Pigeonpea breeding, agronomy and seed systems, International Development Research Centre, IDRC, Ottawa, Canada.

13. CONSULTANCIES

2012: Dry bean value chain in Kenya, Kilimo Trust, Kampala, Uganda

2000: Pan African Research Alliance, Swiss Development Corporation, Berne, Switzerland.

1999: Horticultural Exports, Sulmac Company Ltd, Naivasha, Kenya.

1998: Plant Technologies, East Africa, Nanyuki, Kenya

14. PARTICIPATION IN THE ORGANIZATION OF SCIENTIFIC MEETINGS

- 2010:** Database management, ICIS, Madrid, Spain, Aug 2010
- 2010:** Regional training in International Phaseolus Systems, Nairobi, Kenya
- 2010:** Marker assisted breeding and disease phenotyping, May 2010 Morogoro, Tanzania
- 2008:** Regional drought phenotyping in grain legumes, Lilongwe, Malawi
- 2008:** Regional participatory variety training-of-trainers course, Nazareth, Ethiopia
- 2008:** Regional field Techniques for drought phenotyping, Katumani, Kenya
- 2007:** Research methods for WECABRN scientists, Bafossoum, Cameroon.
- 2007:** Biological nitrogen fixation in legumes, Nairobi, Kenya
- 2007:** International Phaseolus Information system (IPHIS), Nairobi, Kenya
- 2005:** NARS breeders training program, Kampala, Uganda
- 2004:** Regional course in participatory plant breeding, Kakamega, Kenya
- 2003:** Regional course in participatory plant breeding, Kakamega, Kenya
- 2002:** Regional training in creating wider impacts, Mangochi, Malawi

15. ADMINISTRATIVE EXPERIENCE

- 1986 to date: Head, Plant Breeding and Biotechnology Section
- 1986-1996: Warden, Tana Hall, Kabete Campus
- 1986-1998: Ag. Chairman, Dept of Crop Science (various times)
- 1991-1999: Chairman, Board of Undergraduate studies, Faculty of Agriculture
- 1990-1999: Dept and Hall of residence representative, Faculty Board Prizes Committee
- 1986-1991: Dept representative, Dryland Farming Committee
- 1997-2000: Institute of Dryland Research and Development- KARI working group.
- 1986-2004: Member, College Entrepreneurship programme committee
- 1983-2007: Member, Faculty of Agriculture Board
- 1986-2007: Member, Departmental Planning committee
- 1997-2007: Member, College of Agric. and Veterinary Sciences Academic Board

16. MEMBERSHIP OF LEARNED PROFESSIONAL BODIES

- 1987-2008:** Crop Science Society of Kenya
- 1993-2008:** African Crop Science Society
- 2001-2008:** Plant Breeding Society of Kenya
- 1983-2002:** Crop Science Society of America
- 1983-2002:** Agronomy Society of America
- 1982-1984:** Soil Science Society of America
- 1983-2007*:** Sigma Gamma Delta- the Honour Society of Agriculture, USA
- 1983-2007*:** Scientific Research Society, USA

(*Nominated to membership by the Faculty of the Department of Agronomy, University of Wisconsin- Madison, U.S.A. as the best graduate student 1982/83).

17. COURSES AND TRAINING ATTENDED

- 2011: Marker assisted bean breeding, Kirkhouse, 21-14 June 2011, Namulonge, Uganda
- 2011: Bean rust training workshop, 7-11 March 2011, ARC-Grain Crops Institute, Potchefstroom, South Africa
- 2010: Molecular and phenotypic data management course, Madrid, Spain
- 2010: Result based management Course, CIDA, October 2010, Kampala, Uganda

2007: International Crop Information systems (ICIS)/Phaseolus systems (IPHIS)
 2004: Marker assisted selection, drought tolerance and QTL analysis. CIAT, Colombia
 2003: Marker assisted selection, CIAT, Kampala, Uganda
 2003: Results based management course, CIDA, Kampala, Uganda
 2001: Writing winning proposals, ISNAR, The Hague, Netherlands.
 1997: Multiple constraint breeding, CIAT, Cali, Colombia
 1994: Bean breeding, CIAT, Cali, Colombia

18. SCHOLARSHIPS/FELLOWSHIPS AWARDS

2009: Elder of the Burning Spear (EBS) National Medal
2007: Best research scientist, Faculty of Agriculture, University of Nairobi.
1989: Koret Foundation Scholarship (for sabbatical leave)
1983: Best graduate student in Agronomy, University of Wisconsin, Madison, USA
1980-1983: World bank/Government of Kenya scholarship for staff development
1979: Gadhi Smarak Prize, Best final year student, Faculty of Agriculture, University of Nairobi.
1979: East African Development Studies Prize: Best Agric Economics Studies, Agric Policy and Rural Development student in Faculty of Agriculture, University of Nairobi.
1977: Kenya Shell Prize: Best First Year Student, Faculty of Agriculture, University of Nairobi.

19. INNOVATIONS DEVELOPED

Variety	Species	Year of Release
MV 19 (Biofortified)	Climbing bean, <i>Phaseolus vulgaris</i>	2012
MV17 (Biofortified)	Climbing bean, <i>Phaseolus vulgaris</i>	2012
MV14 (Biofortified variety)	Climbing bean, <i>Phaseolus vulgaris</i>	2012
AND 620 (MN1) (Biofortified)	Bush bean, <i>Phaseolus vulgaris</i>	2013
Gofta (MN3) Biofortified)	Bush bean, <i>Phaseolus vulgaris</i>	2013
TY 3396-12 (MN5) Biofortified)	Bush bean, <i>Phaseolus vulgaris</i>	2013
NUA 1 (MN9) Biofortified)	Bush bean, <i>Phaseolus vulgaris</i>	2013
New Rosecoco (E8)	Common bean, <i>Phaseolus vulgaris</i> L.	2008
Miezi Mbili (E2)	Common bean, <i>Phaseolus vulgaris</i> L.	2008
Kenya Early (E4)	Common bean, <i>Phaseolus vulgaris</i> L.	2008
E7 (Kenya Sugar bean)	Common bean, <i>Phaseolus vulgaris</i> L.	2008
M18 (Kenya Red Kidney)	Common bean, <i>Phaseolus vulgaris</i> L.	2008
M22 (Super Rosecoco)	Common bean, <i>Phaseolus vulgaris</i> L.	2008
L36 (Kabete Super)	Common bean, <i>Phaseolus vulgaris</i> L.	2008
L41 (Kenya Wonder)	Common bean, <i>Phaseolus vulgaris</i> L.	2008
Kenya Safi	Common bean, <i>Phaseolus vulgaris</i> L.	2008
Kenya Tamu	Common bean, <i>Phaseolus vulgaris</i> L.	2008
Kenya Mavuno	Common bean, <i>Phaseolus vulgaris</i> L.	2008
Kenya Umoja	Common bean, <i>Phaseolus vulgaris</i> L.	2008
Lyamungu 85	Common bean, <i>Phaseolus vulgaris</i> L.	2008
KON 1	Onion, <i>Allium cepa</i> L.	1994
KON 2	Onion, <i>Allium cepa</i> L.	1994
KON 3	Onion, <i>Allium cepa</i> L.	1994
KON 4	Onion, <i>Allium cepa</i> L.	1994

NPP670	Pigeonpea, <i>Cajanus cajan</i> L. Millsp	1986
Kioko	Pigeonpea, <i>Cajanus cajan</i> L. Millsp	1986
Munaa	Pigeonpea, <i>Cajanus cajan</i> L. Millsp	1986

20. REFEREES

1. Professor Daniel Mukunya
Department of Plant Science and Crop Protection,
University of Nairobi
2. Professor Ratemo Michieka
Department of Plant Science and Crop Protection,
University of Nairobi,
Nairobi, Kenya.
3. Professor Kimani Waithaka,
Department of Plant Science and Crop Protection,
University of Nairobi
Nairobi, Kenya.
4. Professor Agnes Mwang'ombe
Principal,
College of Agriculture and Veterinary Sciences,
University of Nairobi,
Nairobi, Kenya.
5. Prof Eunice Mutitu,
Director,
Board of Postgraduate Studies
University of Nairobi,
Nairobi, Kenya

